Bidirectional TVS Diodes

DESCRIPTION

The PESD15VL1BA is designed for applications requiring transient over voltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.
This series has been specifically designed to protect sensitive components which are connected to power, date and transmission lines from overvoltage caused by ESD (electrostatic discharge), CDE(Cable Discharge Events), and EFT (electrical fast transients).

FEATURES

- IEC61000-4-2(ESD) ±30kV(air), ±30kV(contact)
- IEC61000-4-4(EFT) 40A(5/50ηs)
- 350Watts Peak Pulse Power per (tp=8/20us)
- Protects one I/O line(unidirectional)
- Low clamping voltage
- Low leakage current

MECHANICAL DATA

- Case:SOD-323
- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed: 260 /10s

Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants(PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

ABSOLUTE MACIMUM RATING

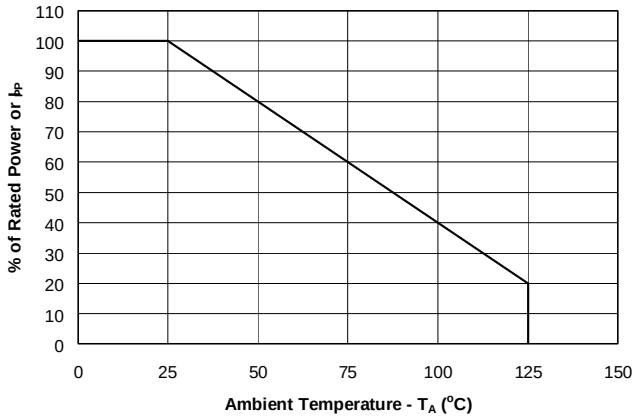
Parameters	Symbol	Value	Unit
			m

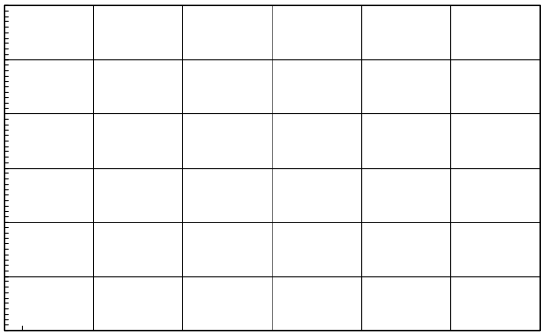
Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified

PART NUMBER	DEVICE MARKING	VRWM (V) (max.)	VB (V) (min.)	IT (mA)	Vc@1A (V) (max.)	Vc (V) (max.)	(@A)	IR (uA) (max.)	CT (pF) (max.)
PESD15VL1BA	2J	15	16.7	1	24	38	10	1	68

ELECTRICAL CHARACTERISTICS CURVE



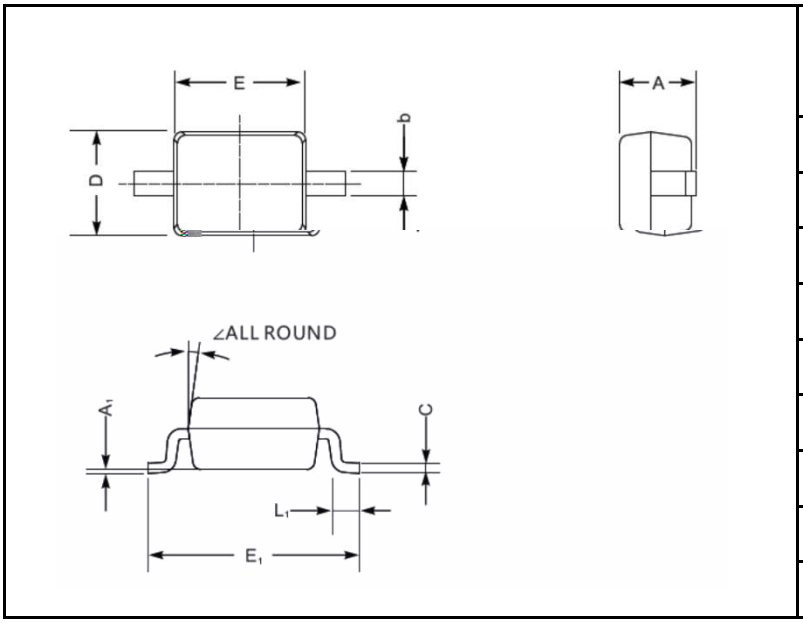


Ordering information

Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7”reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
	9°			

The recommended mounting pad size

